

USSR /Chemical Technology. Chemical Products
and Their Application

I-16

Treatment of natural gases and petroleum.
Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31900

The fraction was washed with 70% H_2SO_4 , 10% solution of soda, and with distilled water, to remove the non-hydrocarbon components. Dearomatization of the fraction was effected with H_2SO_4 sp. gr. 1.84. Thereafter the normal paraffinic hydrocarbons were isolated with urea, the amount of which was taken on the basis of the mean molecular weight of the fraction. The thus separated n-paraffin hydrocarbons were extracted with ethyl ether, after the removal of which the mixture of n-paraffins was fractionated in a column having the effectiveness of 45 theoretical plates at a residual pressure of 10 mm Hg. The individ-

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USSR /Chemical Technology. Chemical Products
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I-16

Treatment of natural gases and petroleum.
Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31900

ual n-paraffin hydrocarbons were found to be concentrated in the fractions having the boiling points of 215-216°, 234-235°, 253-254° and 269-270°. From the investigated fraction of Noriyskaya petroleum were isolated the following n-paraffin hydrocarbons: dodecane, tridecane, tetradecane, pentadecane, identified by their physical properties and by the method of infrared spectroscopy.

Card 3/3

COUNTRY	:Rumania	U-23
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 21 - 1959, No.	76103
AUTHOR	:Areshidze, Kh. I. and Benashvili, Ye. M.	
INST.	:Iasi Polytechnic Institute	
TITLE	:The Quantitative Determination of 5- and 6-membered Cyclanes in Gasoline-Ligroin Fractions from Nori Crude	
ORIG. PUB.	:Bul Inst Politehn Iasi, 3, No 3-4, 103-108 (1957)	
ABSTRACT	The method of selective dehydrogenation catalysis of N. D. Zelinskiy has been applied to the quantitative determination of the content of 5- and 6-membered cyclanes in gasoline-ligroin fractions from Nori crude. The latter is characterized by a low content of aromatics and a high content of paraffins. It has been found that the amount of 5-membered cyclanes found increases with increasing bp of the fractions (60-95°, 95-122°, 122-150°, 150-200°). The content of hydroaromatic hydro-	
CARD:	1/2	

256

ARESHIDZE, Kh. I.

Conversion of some ethylene hydrocarbons and sulfur organic
compounds in the presence of gumbrin. Trudy Inst. khim. AN Grus.
SSR 13:175-182 '57. (MIRA 11:4)
(Olefins) (Sulfur compounds) (Gumbrin)

ARESHIDZE, KH.I.

USSR/Chemical Technology - Chemical Products and Their
Application. Treatment of Natural Gases and Petroleum.
Motor and Jet Fuels. Lubricants. I-8

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2532

Author : Areshidze, Kh.I., Kikvidze, A.V.

Inst : Institute of Chemistry, Academy of Sciences Georgian SSR

Title : Structure of Paraffinic Hydrocarbons of the 200-250°
Fraction of Patara-Shirakskaya Petroleum.

Orig Pub : Tr. in-takhimii AN GruzSSR, 1957, 13, 195-205

Abstract : The dearomatized 200-250° fraction of Patara-Shirakskaya
petroleum and also the narrow fractions having the boiling
ranges of the expected n-paraffins, were treated with
urea (in the proportion of 1:10.5) to form the complex.
By this treatment it was not possible to isolate the n-pa-
raffin hydrocarbons. By determination of the aniline

Card 1/2

ARESHIDZE, Kh.; TAVARTKILADZE, Ye.

Analysis of gumbrine and askanite as dehydrating, cromerizing, and alkylating agents [in Georgian with summary in Russian]. Trudy Tbil. GU no.62:158-166 '57. (MIRA 11)

1. Tbilisskiy gosudarstvennyy universitet imeni Stalina, kafedra organicheskoy khimii.
(Askatite) (Gumbrine)

ARESHIDZE, Kh.I., Doc Chem Sci -- (diss) "Study of the
chemical nature of Georgian petroleum and ~~of the~~ contact
transformation of alkens, cycloalkens, alkans, and
cycloalkans in the presence of gumbrine." Mos, 1958, 26 pp
(Acad Sci USSR. Inst of Organic Chemistry im N.D.
Zelinskiy) 130 copies. List of author's works, pp 24-26
(KL, 23-58, 101-2)

- 9 -

ARESHIDZE, Kh.I.

Behavior of the catalyst, palladium on activated carbon, in catalytic isomerization reactions of alkanes and their cyclization, resulting in the formation of five-membered cyclanes. Trudy Inst.khim. AN Gruz.SSR 14:129-135 '58. (MIRA 13:4)
(Palladium) (Carbon, Activated) (Paraffins)

ARESHIDZE, KH.I.; BENASHVILI, Ye.M.

Investigating hexahydroaromatic hydrocarbons of Noric gasolines
by dehydrogenating catalysis. Soob. AN Gruz. SSR 20 no. 3:291-297
Mr '58. (MIRA 11:?)

1. AN GruzSSR, Institut khimii im. P.G.Melikishvili. Predstavлено
членом-корреспондентом Академии Г.В.Тсitsishvili.
(Hydrocarbons)

ARESHIDZE, Kh.I.; CHARKVIANI, T.N.

New bases for nickel catalysts. Soob. AN Gruz.SSR 21 no.6:667-672
D '58. (MIRA 12:4)

1. AN GruzSSR, Institut khimii im. P.G. Melikishvili. Predstavleno
chlenom-korrespondentom Akademii G.V. TSitsishvili.
(Nickel)

AUTHOR: Areshilze, kh. I., Akhvidze, A. I. 2078-121-6-2875

TITLE: hydrocarbons of the decalin series in the Mirzamal oil
(Uglevodorodnye vysokotsiklicheskie v mirzamalskom nafti)

PUBLISHER: Naukova Akademiya nauk SSSR, 1959, Vol. 11, p. 1,
pp. 1025-1027 (USSR)

ABSTRACT: The thorough investigation of the chemical composition of the oil fractions with a boiling point above 170° is one of the most urgent and important problems of the chemistry of petroleum. The authors have proved that the fraction 150 - 200° of the oil in question contains 25,6 % of hydro-aromatic hydrocarbons. The present investigation is intended for the determination of the individual nature of these hydrocarbons. It was of interest to find out whether the presence of condensed aromatic hydrocarbons and of their hydrated analogues (Refs 1,2) are specific only for the bituminous petroleum of Surakhany or for other kinds of petroleum as well. The investigation has proved the above mentioned compounds to be present in the oil under consideration, namely decalin, 4-methyldecalin, 1,6 and 1,7 dimethyldecalin. The naphthene-hydrocarbons contained in the petroleum of various oil fields in USSR are

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Hydrocarbons of the Decalin Series in the Mirzaan Oil SOV/20-121-6-20/45

studied in the Laboratory imeni S.S. Nametkin of the Gil Institute of the AS USSR. There follows a short survey of publications (Refs 2,3). Table 1 shows the properties of the fraction 150-200° of the Mirzaan oil before and after the catalysis. The group-composition of the tested fraction in % has been computed from the depression of the aniline points, using the corresponding coefficients: aromatics 15,1; hydroaromatics 23,6; remaining cyclanes 27,3; paraffinoids 34,0. Hydroaromatics: Total amount of cyclane = 46,3.

There are 2 tables and 8 references, 5 of which are Soviet.

ASSOCIATION: Institut khimii im. P.G. Melikishvili Akademii nauk GruzSSR (Institute of Chemistry imeni P.G. Melikishvili of AS. Gruzinskaya SSR)

PRESENTED: April 24, 1958, by B. A. Kazanskiy, Member, Academy of Sciences, USSR

SUBMITTED: April 24, 1958.

*Card 2/2

ARESHIDZE, Kh.I.; KIKVIDZE, A.V.

Hydrocarbons of the naphthalene series and benzene derivatives
of Mirzaani crude. Dokl. AN Azerb. SSR 15 no.4:307-310 '59.
(MIRA 12:6)

I.Institut khimii im. P.G. Melikishvili AN Gruzinskoy SSSR.
Predstavleno akademikom AN Azerbaydzhanskoy SSR Yu.G. Mamedaliyevym.
(Petroleum--Analysis) (Naphthalene) (Benzene)

ARESHIDZE, Kh.I.

Catalytic aromatization of Georgian gasolines. Trudy Inst.khim.
AN Azerb.SSR 17:195-203 '59. (MIRA 13:4)

1. Institut khimii AN GruzSSR.
(Gasoline) (Aromatization)

ARESHIDZE, Kh.I.; MELIKADZE, I.D., red.; AVALIANI, N.M., red. izd-vs;
TODUA, A.R., tekhn. red.

[Study of the chemical properties of Georgian petroleums and
contact conversion of hydrocarbons in the presence of gumbrin]
Issledovanie khimicheskoi prirody neftei Gruzii i kontaktnykh
prevrashchenii uglevodorodov v prisutstvii gumbrina. Tbilisi,
Izd-vo Akad. nauk Gruzinskoi SSR, 1960. 232 p. (MIRA 14:5)
(Georgia--Petroleum) (Cracking process)

10396
S/081/62/000/013/039/054
B156/B101

11.0120

AUTHORS: Areshidze, Kh. I., Benashvili, Ye. M., Kikvidze, A. V.

TITLE: The isomerization of homologous compounds of cyclopentane included in the composition of Norio and Mirzaani gasolines, carried out in the presence of gumbrin

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 530, abstract 13M171 (Tr. In-ta khimii AN GruzSSR, v. 15, 1961, 189-202)

TEXT: It has been established that the cyclopentane hydrocarbons (CH_n) contained in the 60-150°C Norio gasoline fraction are 19.8 % isomerized into hydroaromatic hydrocarbons in the presence of gumbrin and 29.5 % isomerized into the hydroaromatic carbons when in contact with gumbrin activated with 25 % HCl. In the presence of activated gumbrin there is 40 % isomerization of the CH_n included in the composition of the dearomatized catalyzate from the 150-200°C Norio petroleum fraction. On investigating the isomerization of the CH_n included in the composition of Mirzaani petroleum (the 60-150°C fraction) into cyclohexane hydrocarbons it was found that the maximum isomerization effect occurs in the presence of gumbrin activated by 30 %

Card 1/2

ARESHIDZE, Kh. I.; KIKVIDZE, A.V.

Hydrocarbons of the cyclohexane series in Mirzaani crude. Soob.AN Gruz.
SSR 26 no.1:17-22 Ja '61. (MIRA 14:3)

1. AN Gruzinskoy SSR, Institut khimii imeni P. G. Melikishvili. Pred-
stavleno chlenom-korrespondentom Akademii G. V. TSitsishvili.
(Mirzaani region—Petroleum) (Cyclohexane)

S/081/61/000/023/045/061
B138/B101

AUTHORS: Areshidze, Kh. I., Kikvidze, A. V.

TITLE: Hydrocarbons of the cyclohexane series in Mirzaani petroleum

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 447, abstract
23M63 (Soobshch. AN GruzSSR, v. 26, no. 1, 1961, 17 - 22)

TEXT: The individual nature of representative cyclohexane homologs in the 150 - 200° fraction of Mirzaani petroleum have been established by the dehydrogenation catalysis, chromatographic adsorption, picrate and optical methods. The hexahydro-aromatic hydrocarbons of this fraction were studied at the same time. The presence of isopropyl-, n-propyl-, 1-methyl-2-ethyl- and 1-methyl-3-ethylcyclohexanes was established. [Abstracter's note: Complete translation.] ✓

Card 1/1

AUTHORS:

TITLE:

PERIODICALS

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TEXI.
Union Carbide
Monomers), April
by thermal and catalytic
In the present experiments,
by pyrolysis of n-pentadecane,
The experiments were carried out in situ
perature being controlled by means of the de-
and measured with a Ni-constantan thermocouple.
some investigations, the volume velocity varied between
1/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201(

ARESHIDZE, Kh.I.

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PHASE I BOOK EXPLOITATION

SOV/6195

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydshanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhan, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Slkuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

Materials of the Scientific Conference (Cont.)

SOV/6195

Areshidze, Kh. I., and Ye. M. Benashvili. The Action of Urea on Normal Alkanes As a Method of Separating Them From Petroleum. (Institut khimii, Akademiya nauk Gruzinskoy SSR).

296

A method based on the capacity of urea to react or form complexes with normal alkanes and other straight-chain hydrocarbons has been used to separate C₆ - C₁₀ alkanes from fractions of Mirzaani and Norio petroleum boiling at 150-200 and 200-250°C, respectively. The method consists in 1) purification of the petroleum fraction with 75% H₂SO₄, 10% NaCO₃ solution, and distilled water; 2) de-aromatization by chromatographic adsorption of silica gel; 3) crystallization of urea/hydrocarbon complexes from a solution of urea in CH₃OH (20% on wt. of urea); 4) dissolution of crystals in distilled water followed by the extraction of the hydrocarbon layer with ethyl ether; and 5) distillation of the extract in a perforated plate column at 40 to 10 mm Hg residual pressure. The Mirzaani and Norio

Card 741

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ARESHIDZE, Kh.I.; ELASHVILI, Z.M.

Investigation of gumbrin and askanite a dehydrating, isomerizing, and alkylating catalysts. Part 10: Isomerization of isopropylcyclopentane in the liquid phase in the presence of gumbrin. Zhur. ob. khim. 32 no.8:2657-2659 Ag '62. (MIRA 15:9)

1. Institut khimii imeni P.G. Melikishvili AN Gruzinskoy SSR.
(Cyclopentane) (Isomerization) (Gumbrin)

ARESHIDZE, KH.I.

JUN 25 1963

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PHASE I BOOK EXPLOITATION

SOV/6195

Nauchnaya konferentsiya institutov khimii Akademii nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademii nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaijani, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Slikuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

Card: 1/11

Materials of the Scientific Conference (Cont.)

SOV/6195

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

TABLE OF CONTENTS:

PHYSICAL CHEMISTRY

Tsitsishvili, G. V., and Ye. D. Rosebashvili. Use of the Magnetic Method in Studying Some Complex Cobalt Compounds	5
Nanobashvili, Ye. M., and L. V. Ivanitskaya. The Effect of γ -Radiation on Colloidal Solutions of Gallium, Indium, and Thallium Sulfide	23
Zul'fugarov, Z. G., V. Ye. Smirnova and S. G. Muradova. The Effect of the Conditions of Synthesis and Formation on the	

Card 2/11

Materials of the Scientific Conference (Cont.)

SOV/6195

Areshidze, Kh. I., and Ye. M. Benashvili. The Action of Urea on Normal Alkanes As a Method of Separating Them From Petroleum. (Institut khimii, Akademiya nauk Gruzinskoy SSR).

296

A method based on the capacity of urea to react or form complexes with normal alkanes and other straight-chain hydrocarbons has been used to separate C₆ - C₁₅ alkanes from fractions of Mirzaani and Norio petroleum boiling at 150-200 and 200-250°C, respectively. The method consists in 1) purification of the petroleum fraction with 75% H₂SO₄, 10% NaCO₃ solution, and distilled water; 2) de-aromatization by chromatographic adsorption of silica gel; 3) crystallization of urea/hydrocarbon complexes from a solution of urea in CH₃OH (20% on wt. of urea); 4) dissolution of crystals in distilled water followed by the extraction of the hydrocarbon layer with ethyl ether; and 5) distillation of the extract in a perforated plate column at 40 to 10 mm Hg residual pressure. The Mirzaani and Norio

Card 7/11

ARESHIDZE, Kh.I.

Dehydrogenation catalysis as a method for investigating naphthenes
at a present stage of development of the chemistry of alkanes and
cyclanes. Trudy Inst.khim.AN Gruz.SSR 16:75-87 '62,

(Paraffins) (Cycloalkanes) (Dehydrogenation) (MIRA 16:4)

L 15484-63

EPR/EWP(j)/EPF(c)/EWT(m)/BDS Pe-4/Ps-4/Pr-4 RH/WW

ACCESSION NR: AP3005448

S/0204/63/003/004/0518/0522 12

AUTHORS: Areshidze, Kh. I.; Chivadze, G. O.

41

TITLE: Preparation of C sub 2 - C sub 4 monomers by the pyrolysis of hydrocarbon mixtures separated from petroleum

SOURCE: Neftekhimiya, v. 3, no. 4, 1963, 518-522

TOPIC TAGS: n-heptane pyrolysis, cyclohexane thermal decomposition, methylcyclopentane, thiocarbamide, thermal decomposition, cyclohexane

ABSTRACT: The pyrolysis of hydrocarbon fractions of n-heptane and two fractions of methylcyclopentane-cyclohexane which were separated by means of thiocarbamide from benzenes have been studied. The separation of n-heptane from the benzene for the use in the pyrolysis results in upgrading the benzene's explosive stability. The results of the thermal decomposition of n-heptane fraction show that the concentration of olefines and dienes of the composition C₃-C₄ is 56.3%, of which the ethylene fraction is 26.6%. The results of the pyrolysis

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L 15484-63

ACCESSION NR: AP3005448

of methylcyclopentane and cyclohexane fraction differ from the pyrolysis of n-hexane. At a temperature of 735°C, the content of olefine and diene fractions of the composition C₃-C₄ is 64.9%, which contains 18.7% of butadiene. The maximum content of olefins and dienes from the thermal decomposition of cyclohexane and methylcyclopentane at a temperature of 730°C was 73.7% and a maximum content of butadiene in the gas at 735°C was 18.6%. The study shows that the type of raw material used will determine the composition of the gas produced with the application of the above pyrolytic methods. Orig. art. has: 1 table.

ASSOCIATION: Institut khimii AN GruzSSR im. P. G. Melikishvili
(Institute of chemistry, AN GSSR)

SUBMITTED: 21Feb62

DATE ACQ: 06Sep63

ENCL: 00

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NO REF SOV: 009

OTHER: 000

Card 2/2

ARESHIDZE, Kh.I.; CHIVADZE, G.O.

Obtaining C₂-C₄ monomers by pyrolysis of hydrocarbon mixtures isolated from petroleum. Neftekhimiia 3 no.4: 518-522 Jl-Ag '63. (MIRA 16:11)

1. Institut khimii AN Gruzinskoy SSR imeni P.G. Melikishvili.

ARESHIDZE, Kh.I.; KHECHINASHVILI, Ye.P.

Quantitative determination of five- and six-membered cyclanes in
Satskhenizi petroleum. Soob. AN Gruz. SSR 28 no.4:401-408 Ap '62.
(MIRA 18:1)

1. AN Gruzinskoy SSR, Institut khimii im. P.G.Melikishvili, Tbilisi.
2. Chlen-korrespondent AN Gruzinskoy SSR (for Areshidze).

KHECHINASHVILI, Ye.P.; ARESHIDZE, Kh.I.

Monocyclic aromatic hydrocarbons of Satskhenisi crudes. Soob.
AN Gruz. SSR 34 no.1:73-78 Ap'64 (MIRA 1787)

1. Institut khimii imeni P.G. Melikishvili AN Gruzinskoy SSR.
2. Chlen-korrespondent AN Gruzinskoy SSR (for Khechinashvili).

ARESHIDZE, Kh.I.; CHARKVIANI, T.N.

Production of olefin monomers ($C_2 \sim C_4$) by thermal decomposition
of H-pentadecane. Soob. AN Gruz. SSR 29 no.5:533-538 N '62.
(MIRA 18:3)

1. Institut khimii im. P.G.Melikishvili AN GruzSSR, Tbilisi.
2. Chlen-korrespondent AN GruzSSR (for Areshidze).

ARESHIDZE, Kh.I.; CHARKVIANI, T.N.

Individual hydrocarbon composition of gasoline from Mirzaani crudes.
Soob. AN Gruz. SSR 35 no.2:306-314 Ag '64.

1. AN Gruzinskoy SSR, Institut imeni P.G.Melikishvili, Tbilisi. 2. Chlen-korrespondent AN Gruzinskoy SSR (for Areshidze).
(MIRA 17:12)

ACCESSION NR: AP4011473

S/0251/63/032/002/0343/0350

AUTHOR: Areshidze, Kh. I.; Chivadze, G. O.

TITLE: Preparation of olefinic and diolefinic monomers by the thermal decomposition of low-octane gasolines

SOURCE: AN GruzSSR. Soobshcheniya, v. 32, no. 2, 1963, 343-350

TOPIC TAGS: olefin, diolefin, gasoline, pyrolysis, low octane gasoline, pyrolysis, ethylene, butadiene, unsaturated hydrocarbon, normal alkane, paraffin hydrocarbon

ABSTRACT: Low octane numbers of gasolines are often caused by the presence of large amounts of normal alkanes. The authors attempted to find out whether C₂--C₄ olefins would be formed when gasoline containing aromatic, naphthenic and iso-paraffinic hydrocarbons in addition to normal alkanes was subjected to pyrolysis. The starting material contained cyclohexane and its homologues, which gave butadiene on pyrolysis. In order to obtain olefinic and diolefinic monomers, the authors subjected low-octane gasolines from Mirzaan and Turkmen petroleum to pyrolysis. The experiments were carried out at 800°C in the presence of water vapor. The reaction vessel was a quartz tube placed in an electric furnace. In some experiments, a gas containing ethylene in amounts of 36.5 to 37.8% by volume was obtained.

Cord 1/2

ACCESSION NR: AP4011473

The high content of ethylene in the gases produced by the pyrolysis of low-octane gasolines makes its separation easier. The total amount of unsaturated hydrocarbons in the liquid pyrolysate was determined by means of the bromine number. The bromine number in the pyrolysates of Mirzaan gasoline varied between 7.3 and 32.4, and that of the Turkmen gasoline, between 13.1 and 30.1.

ASSOCIATION: none

SUBMITTED: 07Jun63

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: FP

NO REF SOV: 009

OTHER: 002

Card 2/2

ARESHIDZE, Kh.I.; ELASHVILI, Z.K.

Isomerization of isopropylcyclopentane in the vapor phase in
the presence of gumbrin. Soob, AN Gruz. SSR 34 no. 2:339.
343 My '64. (MIRA 18:2)

1. Chlen-korrespondent AN Gruzinskoy SSR (for Areshidze).

ARESHIDZE, Kh.I.; CHIVADZE, G.O.

Pyrolysis of the product of petroleum refinery for the
purpose of obtaining monomers. Soob. AN Gruz. SSR 39 no.1:
59-66 Jl '65. (MIRA 18:10)

1. Chlen-korrespondent AN GruzSSR (for Areshidze).

ARESHIDZE, Kh.I.; TAVARTKILADZE, Ye.K.

Simultaneous dehydration of n-butyl alcohol and ammonia in
the presence of gumbrin. Soob. AN Gruz. SSR 39 no.3:569-575
S '65. (MIRA 18:10)

1. Ghlen-korrespondent AN GruzSSR (for Areshidze).

ARESHIDZE, Kh.I.; KIKVIDZE, A.V.

Thermal decomposition of tetradecane. Soob. AN Gruz. SSR 38
no.1:77-84 Ap '65. (MIRA 18:12)

1. Institut fizicheskoy i organicheskoy khimii imeni Melikishvili
AN GruzSSR. 2. Chlen-korrespondent AN GruzSSR (for Areshidze).
Submitted Nov. 30, 1964.

L 40890-56 EWI(m)/F WE/GD

ACC NR: AT6017559 (A)

SOURCE CODE: UR/0000/65/000/000/0294/0298

43
41
B+1

AUTHOR: Areshidze, Kh. I.; Chivadze, G. O.

ORG: none

TITLE: Refining of Turkmenian gasoline by means of CaA synthetic zeolite

SOURCE: Vsesoyuznoye soveshchaniye po tseolitam. 2d, Leningrad, 1964. Tseolity, ikh sintez, svoystva i primeneniye (Zeolites, their synthesis, properties, and application); materialy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 294-298

TOPIC TAGS: zeolite, octane improver, fuel octane rating, adsorption, chromatography, alkanes, petrochemistry

ABSTRACT: An artificial CaA zeolite, in the form of granules furnished by the Gorkii Experimental Station of VNIINP (Gor'kovskaya optychnaya baza VNIINP) was employed to remove n-alkanes (180°C , 400 mm Hg, gasoline flow rate 0.15 hr^{-1}) from gasoline refined at the Batum Petroleum Refinery (Batumskiy neftepererabatyvayushchiy zavod) from Turkmenian crude in an attempt to improve its present octane number of 55. Isolated n-alkanes were identified by vapor-liquid chromatography, their percentage and the physical properties of the gasoline are listed. The octane number was improved to 72.7 (empirical test). Some of the results are tabulated.

Card 1/3

L 40890-66

ACC NR: AT6017559

Table 1. Results of experiments on the separation of n-alkanes from gasoline

Gasoline property	Initial gasoline	Deparaffinized gasoline	Mixture of n-alkanes
Yield, wt. %	--	76.8	20.2
Specific gravity d_4^{20}	0.7229	0.7301	0.6792
Refractive index nD^{20}	1.4109	1.4193	1.3840
Group hydrocarbon composition, wt. %			
paraffinic	53.2	41.2	91.7
naphthenic	35.7	44.6	--
aromatic	11.1	14.0	--
Maximum aniline point	56.8	50.4	69.5
Octane number	55	72.7	--
Fractional composition, °C			
beginning of boiling	37	43	37
10% boils	77	79	78
50% boils	110	115	103
90% boils	145	147	130
end of boiling	158	158	151

The separation of n-alkanes was investigated by the gas-liquid chromatography method. This
Card 2/3

L 40890-66

ACC NR: AT6017559

part of the work was performed at the Institute of Organic Chemistry im. N. D. Zelinsky,
AN SSSR (Institut organicheskoy khimii AN SSSR) by Senior Scientific Worker M. I. Rozengart,
to whom the authors express their sincere gratitude. Orig. art. has: 1 table and 1 figure.

SUB CODE: 07,II/ SUBM DATE: 29Oct65/ ORIG REF: 011/ OTH REF: 004

Card 3/3 MLP

ARESHIDZE, N.D.

A tractor engine fan that can be disengaged. Trakt.i sel'khozmash.
no.8;14 Ag '62. (MIRA 15:8)
(Tractors--Cold weather operation)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

Approved by [unclear]

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201(

S/137/62/000/001/228/237
A154/A101

AUTHOR: Areshidze, T. V.

TITLE: Study and development of methods for separate determination of niobium and tantalum

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 10, abstract 1K66
("Yezhegodnik Kavkazsk. in-ta mineral'n. syr'ya za 1957 g.".
Moscow, Gosgeoltekhnizdat, 1959, 51)

TEXT: An investigation was made into the transition of Mo and Cu compounds into a solution upon the reaction of oxidized and sulfide ores in particular with underground waters of the following types: hydrocarbonate-sulfate-calcium-magnesium; hydrogen-sulfide-alkaline; sulfuric-acid-sulfate; carbonic-acid-hydrocarbonate-calcium. Upon prolonged reaction of the waters with Mo-containing ores for 2-3 months, a gradual increase in the Mo-content of the solution was observed, followed by a gradual decrease. Phase analysis of the precipitates obtained after treatment of the ores by hydrocarbonate-calcium precipitates revealed the presence of powellite.

[Abstracter's note: Complete translation]

L. Vorob'yeva

Card 1/1

ARESHKIN, G., inzhener-podpolkovnik

Each unit should have a well equipped motor pool. Tyl i snab.
Sov.Voor.Sil 21 no.1:67-69 Ja '61. (MIRA 14:6)
(Automobiles, Military)

BUTUZOV, Andrey Fedorovich; VASILEVSKIY, Vladimir Konstantinovich;
ARESHKIN, G.I., red.; IVANS, A.K., red.; PEREDERIY, S.P.,
tekhn. red.

[Conducting individual exercises in tractor and combine operations] Provedenie individual'nykh zaniatii po vozhdenniu traktorov i kombainov. Moskva, Proftekhizdat, 1963. 49 p.
(MIRA 16:12)

1. Zamestitel' nachal'nika Leningradskogo oblastnogo upravleniya professional'no-tehnicheskogo obrazovaniya (for Vasilevskiy).
 2. Direktor uchilishcha mekhanizatsii sel'skogo khozyaystva No.8 (for Butuzov).
- (Agricultural machinery)

ARESHKIN, G.Ya.

K teorii kratnogo integrirovaniya na abstraktnykh mnozhestvakh. tbiliisi, Soobshch.
AN Gr SSR, 5 (1944), 360-363.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.,
Markushevich, A. K.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948

ARESHKIN, G. YA.

19739 ARESHKIN, G. YA. O perekhode K predely nad znakom integrala Lebega-Radone. Soobshch. Akad. NAUK Gruz. SSR. 1949, No. 2, S. 69-76

SO: LETOPIS' ZHUENAL STATBY, Vol. 27, Moskva 1949

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

ARESHKIN, G. V.

114

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

REF ID: A671

Ardell G. Va. On continuous ~~mapping~~ of ~~agent~~

Sgt. [unclear]

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201

ARESHKIN G.Ye.

Areshkin, G. Ya. On convergence in length of curves and
on curvilinear Lebesgue integrals. Doklady Akad. Nauk

Source: Mathematical Reviews, Vol 12, No. 3.

AREŠKIN, G. Ya.

Mathematical Reviews
Vol. 14 No. 8
Sept. 1953
Topology.

Areškin, G. Ya. On the lattice theory of topological spaces.
Akad. Nauk Gruzin. SSR, Trudy Mat. Inst. Razmadze
18, 53-66 (1951). (Russian, Georgian summary)

This paper contains the proof of a theorem announced
earlier [Doklady Akad. Nauk SSSR (N.S.) 81, 129-132
(1951); these Rev. 13, 534]. Also discussed are conditions,
in terms of bases for closed sets, under which a (bi-)compact
 T_1 -space X admits a continuous mapping onto a (bi-)com-
pact Hausdorff space Y [cf. also Areškin, ibid. (N.S.) 59,
629-630 (1948); Izvestiya Akad. Nauk SSSR, Ser. Mat. 13,
213-220 (1949); these Rev. 9, 455; 10, 726].

E. Hewitt (Seattle, Wash.).

H. E. H. KIN, D. Ya.

Mathematical Reviews
Vol. 14 No. 8
Sept. 1953
Algebra

Kreškin, G. Ya. Operator lattices of locally compact topological groups with a countable basis. Akad. Nauk Gruzin. SSR. Trudy Mat. Inst. Razmadze 18, 67-91 (1951). (Russian. Georgian summary)

A proof is given for a theorem announced earlier [Doklady Akad. Nauk SSSR (N.S.) 81, 129-132 (1951); these Rev. 13, 534], giving an axiomatic characterization of operator lattices which can serve as bases for closed sets in a locally compact group with a countable open basis. An analogous theorem is stated and proved for compact metric groups, and conditions, in terms of these lattices, under which a given group is isomorphic or homomorphic to another group are also presented.

E. Hewitt (Seattle, Wash.).

ARESHKIN, G. YA.

USSR/Mathematics - Modern Algebra
(Compacta)

11 Nov 51

"Operator Structures of locally Compact Topological Groups With Even Weight," G. Ya. Areshkin,
Tbilisi Math Inst imeni A. M. Razmadze, Acad Sci
Georgian SSR

"Dok Ak Nauk SSSR" Vol LXXXI, No 2, pp 129-132

Studies locally compact topological groups with even wt with the aid of the purely algebraic concept of "operator structure." Shows that each such topological group is detd by its operator structure with an accuracy up to an isomorphism.

199781

USSR/Mathematics - Modern Algebra
(Compacta) (Contd) 11 Nov 51

The central place in this work is assumed by the axiomatic characteristics of operator structures of locally compact and compact groups. Obtains also a criterion for isomorphism and homomorphism of groups in terms of the operator structures. Submitted 12 Nov 51 by Acad A. N. Kolmogorov.

199781

ARESHKIN, G. Ya.

Will Defend his dissertation for the Degree of Dr. Physico-Mathematical Sciences, "Structural Methods in the theory of Topologic Spaces", at the Mathematics Institute imeni Steklov, 29 June 1953 at 1630 hrs.

SO: Izvestiya, 5 June 1953, No 131 (11202)

ARESHKIN, G. YA.

Jul/Aug 53
USSR/Mathematics - Topology, pp 133-156
Set-Theoretic

"Free Distributive Structures and Free Bicomplete
Top Spaces," G. Ya. Arshkin, Leningrad Branch of
Math Inst im Steklov, Acad Sci USSR

Mat Sbor, Vol 33 (75), No 1, pp 133-156

States that the theory of distributive structures
is closely connected with set-theoretic topology
and, particularly, with bicomplete and locally bi-
compact topological spaces. The understanding of
this theory requires knowledge of set-theoretic

27T85

topology as given in Hausdorff and Birkhoff. This
connection is established naturally by means of the
bases of topological spaces which form, under the
supplementary condition of closedness of these
bases relative to operations of union and inter-
section of two sets, a distributive structure. Notes
that such a connection with the theory of structures
immediately creates a large complex of problems and
lies at the basis of the extensive penetration of
new algebraic concepts and investigative methods
into set-theoretic topology. Presented 3 Sep 52.

27T85

ARESHKIN, G. Ya.

Mathematical Reviews
Vol. 15 No. 3
March 1954
Algebra

7-13-54

LL

Areškin, G. Ya. On congruence relations in distributive lattices with a zero element. Doklady Akad. Nauk SSSR (N.S.) 90, 485-486 (1953). (Russian) Let L denote a distributive lattice with 0 , K a congruence relation on L , I a multiplicative ideal of L , and $\underline{K}(I)$ the smallest congruence relation on L with kernel I . The following results are stated without proof. Theorem 1: The greatest congruence relation $\bar{K}(I)$ with kernel I is the one with $x=y$ if and only if $a \cap (x \cap y) \in I$ implies $a \cap (x \cup y) \in I$ for every $a \in L$. Theorem 2: If K has kernel I , then there is a unique congruence relation K^* on the factor lattice $L/K(I)$ (whose zero is $\bar{0}$) such that $K = \underline{K}(I) \cdot K^*$, $\underline{K}(\bar{0}) \leq K^* \leq \bar{K}(\bar{0})$, and the mapping $K \rightarrow K^*$ is an isomorphism of the interval $[\underline{K}(I), \bar{K}(I)]$ onto $[\underline{K}(\bar{0}), \bar{K}(\bar{0})]$. Definition: A lattice is weakly complemented if for every pair $x \neq y$ in it, there exists z with $z \cap (x \cap y) = 0$, $z \cap (x \cup y) \neq 0$. Theorem 3: L is a generalized Boolean algebra if and only if for every I , $L/K(I)$ is weakly complemented. Theorem 4: If K has kernel I , $L/K(I)$ is weakly complemented if and only if $K = \bar{K}(I)$. Theorem 5 [cf. G. Birkhoff, Lattice theory, Amer. Math. Soc. Colloq. Publ., v. 25, rev. ed., New York, 1948, problem 73; these Rev. 10, 673]: The following are equivalent: (1) every congruence relation in L is uniquely determined by its kernel; (2) if $x, y \in L$ and $a \cap (x \cap y) \in I$ imply $a \cap (x \cup y) \in I$, $a \in L$, then there exists $a_0 \in L$ with $a_0 \cap (x \cap y) \in I$ and $a_0 \cup (x \cap y) \geq x \cup y$; (3) for every I , $L/K(I)$ is weakly complemented; (4) L is a generalized Boolean algebra. [For closely related results, see the paper reviewed above.] P. M. Whitman (Silver Spring, Md.).

ARESHKIN, G.Ya.

Congruence relationships in distributive structures with a zero
element. Uch. zap. Ped. inst. Gerts. 183:85-127 '58.
(MIRA 13:8)

(Congruences).

ARESHKIN, G.Ya.

Cauchy directions and the complementation of regular spaces.
Trudy Mat. inst. AN Gruz. SSR 27:85-102 '60. (MIRA 15:3)
(Topology)

ARESHKIN, G.Ya.

Fundamental concepts and problems of mathematical analysis in
topological measure spaces. Uch.zap.Ped.inst.Gerts. 218:1-12
'61. (MIRA 14:10)

(Topology)

ARESHAIN, G.Ya.

Cauchy directions and the expansions of regular spaces. Dokl.
AN SSSR 137 no. 1:9-12 Mr-Apr '61. (MIRA 14:2)

1. Predstavleno akademikom P.S. Alekseevym.
(Spaces, Generalized)

ARESHKIN, G.Ya.

Compactness of a family of totally additive functions of a set.
Uch.zap.Ped.inst.Gerts. 238:102-118 '62. (MIRA 16:4)
(Aggregates) (Sequences (Mathematics))

ARESHKINA, L.Y.

24

PROCESSES AND PREPARATIONS

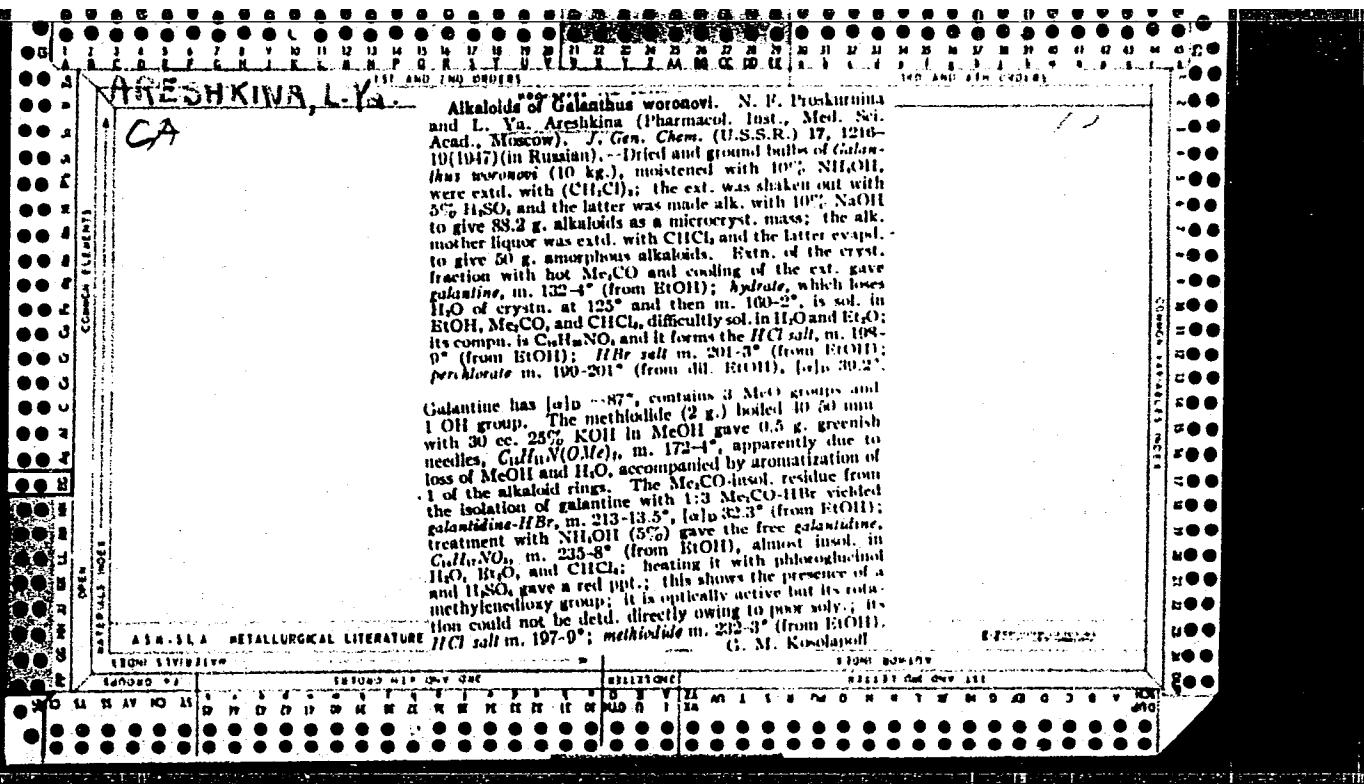
The effect of fertilizers on the quality of tangerines of the species "Unshiu," I. Va. Aizukawa, *Nara Shimbun*, 1940, No. 1, 32 p., *Cerne* 27, 567-568. II. 1940. As fertilizers hasten ripening, increase the pulp content, and generally improve the quality of the fruit but do not affect the juice content, nor the quantity of sol. salts in the juice. N fertilizers diminish the pulp content but increase the content of sol. salts in the juice, the sugar content, and the total content of extractable substances.

ASRILSA METALLURGICAL LITERATURE CLASSIFICATION

1922-2021

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00010201C



ARESHKINA, L. YA.

PA 11/49T10

USSR/Chemistry - Alkaloids, In Senecio
Platyphyllus
Chemistry - Alkaloids, Oxidized

Jul 48

"N-Oxides of Senecio Platyphyllus Plant Alkaloids,"
L. Ya. Areščkina, Inst Biochem imeni A. N. Bakh,
Acad Sci USSR, 3½ pp

"Dok Ak Nauk SSSR" Vol LXI, No 3

Describes experiments to investigate content of
two types of alkaloid, oxidized or N-oxide and
reduced, in Senecio platyphyllus. Tabulated re-
sults indicate that alkaloids may play a part in
metabolism of the plant. Submitted 24 May 48.

11/49T10

ARESHKINA, L. YA.

PA 39/49T18

USSR/Chemistry - Alkaloids in Senecio Apr 49

Platiphyllus

Medicine - Plant Physiology

"N-Oxides of Alkaloids in Senecio Platiphyllus Plants,"
L. Ya. Areshkina, Inst Biochem imeni A. N. Bakh,
Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXV, No. 5

Attempts to determine whether alkaloids of Senecio platiphyllus take part in the plants' oxidizing-reducing processes. Describes experiments using indigocarmine, ascorbic acid, and citric acid as easily oxidizable substrates. Shows interaction of amino oxides (mN=O) of Senecio platiphyllus alkaloids with easily oxidizable organic compounds. Submitted by Acad A. I. Oparin, 16 Feb 49.

39/49T18

BUKIN, V.N.; ARESHKINA, L.Ya.

Proteic combining of provitamins and vitamins A and D. Biokhimiia,
Moskva 15 no.5:448-456 Sept-Oct 1950. (CLML 20:7)

1. Institute of Biochemistry imeni A.N. Bakh, Academy of Sciences
USSR, Moscow.

BUKIN,V.N.;ARESHKINA,L.Ya.

Proteinic compounds of provitamins and vitamins A and D. Vit.res.
1 ikh isp. no.1:7-21 '51. (MIRA 8:12)
(PROVITAMINS) (VITAMINS--A) (VITAMINS--D)

ARESHKINA, L. YA.

USSR/Biology - Alkaloids, Plants Sep/Oct 51

"The Role of N-Oxides of Alkaloids in the Plant,"
L. Ya. Areshkina, Inst Biochem imeni A. N. Bakh,
Acad Sci USSR, Moscow

"Biokhim" Vol XVI, No 5, pp 461-470

On the basis of extensive exptl data, discusses
the phytochem significance of N-oxides of alka-
loids, with particular attention to Senecio
platyphyllus.

202T19

ARESHKINA, L. Ya.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Biological Chemistry

Sterol-protein complexes and their transformations. I

V. A. Areškiná, V. N. Bulein, and T. I. Škarobatova
časopis Československé Akademie věd, Mat. a fyz. vědy, Biokémie
Biokémie 18, 559-574 (1957). Chem. and ch. reproducive
methods of analysis were employed. In bovine and egg
yolk, sterol complexes with P-contg. protein are represented
by a variety of compounds having different protein and sterol
components. Esterified and non-esterified sterols may enter
into complex formation with protein; hence it can not be
assumed that the hydroxyl group of ring A sterols is the
factor responsible for complex formation. The introduction
into ring B of another acid, long (provitamin D) or the substituting
of ring-D (vitamin D) does not render the sterol incapable
of protein complex formation. This would indicate
that the complex formation occurs at the H bond of C atoms
in positions 5, 7 of ring B. The stability of the complexes
varies. Some are destroyed by treatment with organic solvents,
while others can be destroyed only by alk. hydrolysis. Complexes
of varying degrees of stability can be present in one
and the same lipoprotein. A direct relation exists in the
complexes between P, X, and the sterols. The formation
and splitting of the sterol-protein complexes are connected
with the processes of phosphorylation and dephosphorylation
of the protein resulting correspondingly in an increase or
decrease in the sterol and lipoprotein content. The cleavage
of non-esterified sterols from the complex is connected
with the process of dephosphorylation. The cleavage of
esterified sterols occurs through other processes without the
reduction in P content of protein. In the egg yolk, provitamin
D enters into complex formation with the water-sol.
fraction of the protein, and this complex is only destroyed
by heat of coagulation. B. S. Levine

2

HIRE DOKHIN, L. YA.
USSR.

Micro- and macromethods for the determination of vitamin B_{12} . V. N. Bokin, L. Ya. Areshkina, and L. B. Kutsayev (A. N. Bakulev Inst. Biophysics, Acad. Sci. U.S.S.R., Moscow). Biokhimiya 19, 715-20 (1954).—A microbiol. and two chem. methods are described for the detn. of vitamin B_{12} (I). In the first, a strain of *Escherichia coli* deficient in the production of I is used as the indicator organism. Transfers are made into tubes contg. a special synthetic liquid medium, incubated for 24 hrs., centrifuged, washed twice by resus. suspension and centrifugation in 0.9% NaCl, and a final standard suspension is made. To each of a series of tubes are added 5 ml. of the synthetic liquid culture medium and 5 ml. of varying dilns. of a standard concn. of I as the control set, and to another series of tubes are added 5 ml. of varying concns. of the exptl. material. Other steps of the procedure are described. The first chem. method consists of the following steps: mix 100 g. of minced liver and 300 ml. H₂O, autoclave, and filter; mix 300 ml. of filtrate and 6 g. (2%) charcoal and filter; elute twice with 18 times the vol. of 65% alc.; conc. 193 ml. of eluate to 19.2 ml.; transfer 19.2 ml. of the concentrate into a mixt. of phenol and CHCl₃, and wash with CHCl₃-std. H₂O; to 10 ml. of phenol-CHCl₃ mixt. add 7 times the vol. of CHCl₃; transfer 96 ml. of the phenol-CHCl₃ mixt. contg. the I into H₂O; wash 10 ml. of the H₂O soln. with ether and conc.; use 4-6 ml. per det. The product should be of rose color characteristic of I. Det. absorption in the spectrophotometric region of 548 m μ . Use the formula: γ of I = $EV \times 10^4/64$, where E is the observed absorption coeff., V the final vol. of the H₂O soln. in ml., 64 the absorption coeff. for 1% soln. of I at 548 m μ , 10⁴ the conversion coeff. of I from 1% to γ per ml. Dets. can be made on samples having 50-75 γ of I. The second chem. method, designed for special purposes, is a short cut of the first having the same initial 4 steps. B. S. Levings

Areshkina, L.Ya.
BUKIN, V.N.; ARESHKINA, L.Ya.; SKOROBOGATOVA, Ye.P.

Chemical method for the determination of vitamin B₁₂. Vit. res. 1
ikh isp. no.3:182-187 '55. (MLRA 9:4)

(VITAMINS--B) (COLORIMETRY) (SPECTRUM ANALYSIS)

Areshkin, L. Ya.

✓ Chemistry and biochemistry of vitamin B₁₂. V. N.
Bukin, L. Ya. Areshkina, and L. S. Kuteva. *Uspekhi
Sovremennoi Biologii*, 10, 289-88(1955).—A review of the
present status of the structure, phys. and chem. properties of
vitamin B₁₂ and its derivs. and analogs., methods of detn.,
sources of the vitamin, its relation to intrinsic factor, and
numerous bichem. roles ascribed to the vitamin. The
uncertain status of the exact bichem. function of vitamin
B₁₂ is pointed out. J. A. Stekol.

(3)

EXCERPTA MEDICA Sec.2 Vol.11/3 Physio-biochem. Mar 58

1074. CHANGES INDUCED IN PROTEIN-STEROL COMPLEXES OF SERUM BY EXPERIMENTAL RICKETS AND HYPERVITAMINOSIS-D (Russian text) - Arezhkina L. Ya., Bukin V. N., Erofeeva N. N. and Skorobogatova E. P. Inst. of Biochem., Acad. of Scis of USSR, Moscow - BIOKHIMIYA 1957, 22/1-2 (384-390) Tables 9 Illus. 3

A study was carried out on the serum of normal, rickety and D-hypervitaminotic rats. No quantitative changes were found in the content of individual protein fractions or in their electric mobility, but abrupt changes were noted in the composition and properties of fractions. In rickets, there was a decrease in P content, mostly in the albumin fraction, affecting both inorganic P and organic combined P. In D-hypervitaminosis an abrupt increase of P content was found, mainly in globulins and in the organic-bound forms an abrupt increase in the same fractions of Ca content, along with strengthening of its binding and a pronounced rise of lipids.

USSR/Plant Physiology. Respiration and Metabolism

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 86633

Author : Areshkina L.Ya.

Inst :

Title : Alkaloids of the Genus Senecio and Their Transformations in the Plants.

Orig Pub : Biokhimiya, 22, No 3, 527, 1957

Abstract : Along with the growth of Senecio plathyphyllus plants there is a proportional increase in the sum total of alkaloids. At the end of vegetation, the observations established a decrease in the alkaloid content of the above-ground part of the plant and a pronounced accumulation of alkaloids in the rhizome. The alkaloids are basically represented by the N-oxide form, and their content varies mostly owing to that form. The content of the reduced form of alkaloids is insignificant and therefore constant in the course of growth of the plant. During the quiescent period the alkaloids are

Card : 1/2

ARESHKINA, L.Ya

WILSONS BIRD

Vitamin D and Protein-Malnutrition in Indian Females

PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON ENZYME CHEMISTRY, Tokyo & Kyoto, 1957
EDITOR: Organizing Committee, International Symposium on Enzyme Chemistry, Tokyo.
Nara, 1958.

The enzyme fraction retains most of the activity of the original tissue extract for the hydrolysis of aromatic acid. The activity of the enzyme is inhibited by *p*-chloro-*m*-nitrobenzoate and murexide. *p*-Chloro-*m*-nitrobenzoate is reversed by sodium glutathione. The significance of these results has been discussed.

REFERENCES

Second (1887).
Chitt. G. E., and McLean, P.: *Schism. J. N. Am. Fish.*

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J. L. YOUNG

In recent years increasing interest has been attached to the immunobiology of hyperthyroidism because in many instances they affect the immune system in a variety of ways under various conditions. For example, a study of these conditions may cast light on some new aspects of the immunobiology of the disease. The mechanism related to embryologic development or development of autoimmunity (1-1).

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00010201C

ARSHKINA, L.Ya.

Fourth All-Union Conference on Vitamins. Izv. AN SSSR Ser. biol.
no. 3:377-379 My-Je '58
(MIRA 11:6)
(VITAMINS--CONGRESSES)

SOV/30-58-9-24/51

AUTHORS: Areshkina, L. Ya., Candidate of Biological Sciences
Glikina, M. V., Candidate of Biological Sciences, Mosolov,
V.V., Candidate of Biology

TITLE: News in Brief (Kratkiye soobshcheniya) Methodological Symposium
on the Structure of Albumin (Metodicheskiy simpozium po strukture
belkov)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 9, pp. 92 - 93 (USSR)

ABSTRACT: The symposium took place in Prague (Praga) from June 2 to
14. It had the purpose of informing scientists from other
countries on the latest methods of albumin research of the
Khimicheskiy institut Cheskoslovakskoy Akademii nauk (Chemical
Institute of the Czechoslovakian Academy of Sciences).
It was attended by representatives of the Soviet Union, Poland,
Hungary, Bulgaria, the Chinese People's Republic. Practical
work was explained and reports were delivered in Russian
and German. In the Khimicheskiy institut (Chemical Institute)
an instrument for electrophoresis and a new method of
chromatography was shown. A simple and handy instrument for
the separation of higher peptides from lower ones was
demonstrated.

Card 1/2

ARESHKINA, L. YA., KUTSEVA, L. S., and SKOROBOGATOVA, E. P. (USSR)

"The Participation of Vitamin B₁₂ in the Protein Metabolism of
Escherichia Coli 113-3."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

ARESHKINA, L.Ya.; KUTSEVA, L.S.; SKOROBOGATOVA, Ye.P.; ZHUKOVA, I.G.

Participation of vitamin B₁₂ in the protein metabolism of Escherichia coli. Vit. res. i ikh. isp. no.5:19-31 '61. (MIRA 15:1)

1. Institut biokhimii im. A.N.Bakha AN SSSR, Moskva.
(CYANOCOBALAMINE) (PROTEIN METAPOLYM)

ARESHKINA, L.Ya.; SKOROBOGATOVA, Ye.P.

Chemical testing of vitamin B₁₂ produced by the use of propionic acid bacteria. Vit. res. i ikh. isp. no.5:164-167 '61.

(MIRA 15:1)

1. Institut biokhimii im. A.N.Bakha AN SSSR, Moskva.
(CYANOCOBALAMINE)
(DRUGS—ADULTERATION AND ANALYSIS)

ANDREYEVA, N. A.; KUTSEVA, L. S.; ARESHKINA, L. Ya.

Participation of folic acid and vitamin B₁₂ in purine synthesis
by the cells of Escherichia coli 113-3. Dokl. AN SSSR 141 no.1:
223-226 N '61. (MIRA 14:11)

1. Institut biokhimii im. A. N. Bekha AN SSSR. Predstavлено
Академиком А. И. Опарином.

(FOLIC ACID)
(CYANOCOBALAMINE)
(PURINES)

ARESHKINA, L.Ya.; CHANAN SINGKH; KUTSEVA, L.S.; SKOROBOGATOVA, Ye.P.

Isolation of the coenzyme of vitamin B₁₂. Dokl. AN SSSR 146
no.1:207-209 S '62. (MIRA 15:9)

1. Institut biokhimii im. A.N. Bakha AN SSSR. Predstavлено
академиком А.И. Опарином.
(CYANOCOBALAMIN) (COENZYMES)

ARESHKINA, L. Ye., ANDREYEVA, N.A., KUTSEVA, L.S., EUKIN, V.N.

"Combined effect of Folic Acid and Vitamin H12 in Purine Synthesis"

Report to be presented at Medical Society of J. E. PURKYNE, Czech,
Vitaminological Cong., Prague Czech., 3-6 Jun 63

ARESHKINA, L.Ya.; KUTSEVA, L.S.; SKOROBOGATOVA, Ye.P.

Cobamide coenzymes. Usp.biol.khim. 5:262-274 '63. (MIRA 17:3)

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